Aviation Week & Space Technology

September 23, 1963

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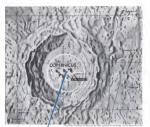
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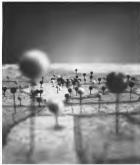
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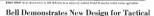
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AIR TRANSPORT

Local Service Subsidy Cut Irks Congress

Legislators surprised, angered by CAB's plan to reduce payments by enesthird over five-year period.

Washington-Civil Asymmetrics Brazil's detailed plan to sligh leted service

(AW Aur. 19, p. 38) Behind this resetting is the providing provising that the White House is attempting a hold investor of funtion historically controlled by Congress

affecting the public interest, and the

Chila's, observate of a Security existing Pressures Mount on CAB Over Northeast

Washington-Priving process on

In its petition, furtice Dept. mys. · Board decision that there is no more!

Chief Tenget

The Kropach, Advancations has

of being in both the Sende and Flight Engineers Prepare New

Moves in Dispute With Eastern

Logal Precedent

United Air Lines sets new world air traffic record



Almost One Billion miles flown by 1,348,000 passengers in August

Long the leader in world passenger transportsturn. Destroy Air Lines set a new all-time traffic 1.545.000 passengers \$74,000,000 miles during Appear - for exceeding the traffic carried by there. the free world. We will continue to increase our efforts to

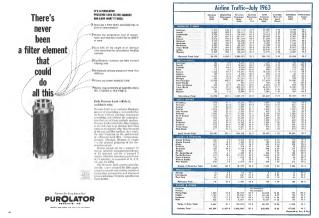
For each day in August, United averaged more than 43,000 passengers on its coust-tocoast system. United is the only air line linking the principal cities of the East and Midwest with both California and the Pacific Northnest and Henry's

United is reset appreciative of the opportunity to have served the 1,343,000 passengers who transfed with as last month. And we arknowle edge with pride the performance of our emplayers who rendered Extra Care service to

provide fine, courteous, dependable service . . . with each interconnects as our popular and rapidly expanding One-Class service; the world's largest let fleet, soon to be expended by forty new Boeing 727 tri-jet sircraft; and above all Extra Care-for people.



Airline R	evenu	ies, i	xpen	ses-r	mst .	DIX IVI	onthis,	. 170.	_
EN TROUGANDS OF BOULANTS	GPERATING REVENUES					Terul Generaliza	PROFIT (or LOSS)		
	Passanger	Cargo	Ohv Nev Hall	II A Fee	Swinley	Tatel	Inperio	Operating	Not
DOMESTIC STERRED									
American	202,136	19,614	1,120	5.156		225,414	215, 440	27,974	4,187
Seed 9 Confinental	91,431 32,143			1,113		47,137 36,191	40,493 34,048	2,033	1,437
		5,004 7,103							
Seiters Neitered	144,204		1,332	1,814		134,192 67,499 29,321	134,543	13,1150	2,742
Redheed Redheed	14,539	1,000	233	1,362		39,121	37.914 65.474		12.314
Trans Barriel	145.29							3,543 (1,124)	(0,341)
Belied Makes	247,743 30,376	1,430	(342	1,471		6.78	224,493 39,455	2,117	2, 247
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			- 3	113			1.413	(1,126)	044
			1						
Restore Amount	10,410	1,117	248	445		29,115	1,142	1 044	84.5
Horizona Facence	15,879	1,343	7,346	3,365 740		20,088	10,431	8,880	2,140
		29.110	20, 670	22, 311					
bruth Paulfy Trace-Cortichess	119	417	1,790			6, 116	5.80	1271	(344)
			1,111	7, 102				1,114	
Waster's	1200	427	113	- 1		13,044	75,410	1,765	1,41
(Managhana) Talah	104.407	10.012	35.141	17 W.E		100 716	101.715	19 811	11.00
LOCAL MENTER	-							-	
	1.571	871	10	191	7,100	10,48	11,743	21.4	111
Frances Control		33			1,244	233	5.144	1,718	91
Francisc Lates Control	L439	544	199	10	1.08	1.00		P1.8	- 60
North Easted	1.430	141	115	111	1.07	13,343	15,130	200	10
				186					
Francis Spokers	2.11	976	199	136	1,781	10,481	250	501	111
West Coast	3,338	130	- 84	10	1,121	5,177	5,797	254	339
Level Service Tale!	49,103	3,79	3,391	1 184	14,191	318,639	104.346	4.40	1.133
ADDRESS & HUWINSHM	1,474	191	3,117	-	174	5.00	6,994	- 71	-
Alleska Greefel Alatin		12	79	12	6.00				
	7,433		112		114	7,179	1,472	1945	12(4)
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Pedits Nathan Record Mantine	4,160	112	102	324	464	6,290 1,400	7,138	(1100	187YO
	24	17	12	424					
When Allenka					1,011	3,118	3,414	5661	3613
Allege & Hermites Tend HERCOPTERS	14,089	2.814	3,848	3,411	4, 141	37.499	29,650	0.08	(9,1936
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Les Angeles New York	API	100	å	7 A	1,001	1, 633 2, 167	7, 221	74	21
National Total	1.407	120	- 29	- 11	1,40				
	1,417	139	24	.,,	1,491	4,411	4,410	(67)	[183]
CAPEO & OTHER		314	- 10	_	_	1.00	1,141	-	
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				4,311				(7,179)	11,190
ndon's Tabel	1, 400, 766					1,796,662			





Who needs 'em?

As if the above his waren't enough we would go an asking things the U.S. Ample Chench, designed not produced by Seeling's Vertic Division, docurff made for field maniferance. For here is a beliesigned what you'ld only provides the laws on larged finish single, heardedly analysings, heartening device, fluid stifty oungest and insigned finish single documents of the gradifpoint APU, but doos may with a gradifFor instance. No need to sefond early a dismartle the otherant for access to expected products the dismartle fractions or standing the problems of finish manner sense, senselved bearing any systems under force in behind intuiting blattlets. Oneither experiencing forward thinking weapons systems propose management and the visit relationship of the filtering Damping Business.



ALPA Adopts 'Diplomatic' Bargaining

By James R. Ashleck poli of Fin A volc. New York—Arr Live Piter Ann. is obseived a "free-life, dislocatio" on ALFA in the 1

proofs as its contract negativance with arriver, the remost now, and is descriptionized year excession is line of order lines; benedits. The plot serious feels that the technique will bely cut down the time required for contract enginetizers, which is the name time achieving terms. Sended suggestation protects in to it.

Sended suggestation protects in to it.

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Milot Publish Anna (AM Sance a docume count competition on Windington odd)

consistent color parts. The decision appealed as more largest even relative to the relative properties. The color of the c

Trave World Arthur plate will see, I shift less reductive comparable to their recent practed policy of the recent practed policy in the recent practed policy in the recent practed policy in the recent policy of the rece

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AVIATION WEEK & SPACE FECHNOLOGY, September 23, 1943

DH 125

Asir be production and complete for U.S. delivery in statistics. Distributed, equalized and senseral by: Atlantic Aircraft Sales Corporation

AiResearch Aviation Service Co.

See the Hawker Siddelev DH 125 Influence much up at the NBAA Commention Exhibit Hall.

THIS ONE MEANS BUSINESS



500 mph DH 135 primer offers the speed, cerefier and state of a connection) per train-part together with those humans ultrain suggest whething of flights in stranguesses, on nonvenience and the opportunity of one convenience and the opportunity of make underly time enter productive.

Advance DH 1859, shown here on the strain at Hatfield, England, are backed by del Divilland's more than twenty years' on spensors on buffers or starroom.

Region Designed and built by the de Havelland Division of Hawker Stideley Aviances, the DH 128 is proceed by renn Brainest Stideley Viper 521 pe engines of 3,160 pound thrust eich.

Left: The DH 128 cernies six to eight parseners in Santon. The calling, which we feel

a completely separate laxabory of sirl dimensions, is almost twenty feet long. HAWKER SIDDELEY INTERNATIONAL, INC.





AIRLINE OBSERVER

►U, S. describe treathers showed a net poste of \$8 + million for the first each months of \$55 to recognish with a nat loss of \$5 \cdot 1 million in the street panel but tern. Not post for july no \$5.5 million. Driving the overnentity possel, coursing recognish course \$4.501,615,600 and operating recognishing to \$1.501,615,600.

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the deligner if the interactional provise expositabile that now determines assessibly—before not extell those a strong season of reprocedebile.

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SHORTLINES

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tensors of an isolat system. From Los Angelin, Denney, Kinain Cety and Chiego to Tamona and Marrisa! Nestago agists are being weight between these points.

Delta Air Lines will complete a 6,000.

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*United Air Lance is odding the free for large plan to the needless service cludes a new Stong with the CAR, the word of the famal, will per the overSTOL Performance with the Caribou CV-2R

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The Caribou takes off in a distance of 725 fast... Climbs over 1300 fast over rights... Out of rough makeshift strips... With a military

DE HAVILLAND AIRCRAFT OF CANADA

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STRIKE UNDER THE RADAR WITH THE ROLLS-ROYCE SPEY

The Spoy is the most advanced military engine now flying, It has been under military development since 1951. And in the Blackhum Burcanese 45 it is demonstrating in contributing and contributing and the state of t

Fight dealing of the Spep-powered Secondar Size is now proceeding.
 Development testing of the reliting Spey with re-hord is under way, and very high threat boosts have been occlaved.

3 Alreely Terrines in Scoupries here ordered Spay pleasered One-Cleven and Tridest eithren, ead two precessers have ordered the Successer 3 2 A NEW PHASE BEGINS

WITH ROLLS-ROYCE POWER

MANAGEMENT



Competition to Tighten in Semiconductors

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cue and lugger (AW Dec. 10, p. 45)

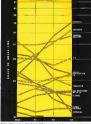
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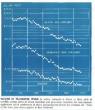
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Our solid state DMA-29

THE BENDIX CORPORATION BENDIX RADIO DIVISION BATTWORE & MARYAND

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■ The high performance characteristics offered by five manaries electrical reflections expublic of creating serie can VXWR modelows.

R & D programs now underway, high voltage cable-conired 194" diameter Styrofax® control cable fitted with

tem capability in suphiaticated feed networks can be at fined for challenging assumenceds. When restreet comreministers in the key to your prosest . . . see Pholes. Dedge Electrories.

ELECTRONIC PRODUCTS CORPORATION 80 DODGE AVENUE . NORTH HAVEN . CONNECTICUT

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DALIMO VICTOR'S "MAD" SYSTEM SPOTS UNDERSEA SUBS. In the year, almost unexplored response of sener space, potentially hostife sobs may ream. Good distribution of such activity is a key fector in the Mayy's undersea warfare capabilities - Such a project is Dalino Victor's "MAD" System - Meanetic submotion Superallegen can be continued indefentally.

This ASW system is another example of Dalmo Victor's intervaled avalents capability DV is in the vanouand of new developments in our mover product areas. If you are inferested in becoming part of these challenging programs. Daline Victor cur-





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HUTTON INDUSTRIES







FASTEST GUN

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AVAILON WITK & SPACE TROINGINGS, Section 23, 1963

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FLOSOLIEWTS - BALLASTS

AVAIRON WEIG & SPACE TECHNOLOGY, Summer 23, 1965





RELIABILITY...

Why the aerospace industry ranks these switches and power relays no.1

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PULSED LIGHT

Need a light?





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SPACE TECHNOLOGY





PEATT & WHITHIP'S \$1200-2 advanced coping is shown in specime from \$100 and in advanceds (1980). PAW was constrained from

P&W Studies Small, High-Thrust Engines

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Mightiest solid-presellant racket tested by United Technology Center

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Hvdraulic motor: greater starting torque with peak running efficiency. Inter-changeable parts. Straight line design. Longer life. Increased shaft rigidity.



Hvdro-Aire





INSTANT SPACE SIMULATION (JUST ADD VACUUM). The rise to albitude chamber, to simulate pressure changes encountered by rocket-borne psyloads, is a new addition to the Bendix environmental laboratories where engineers design, fabricate and test space vehicles. Engineers experienced in integration, assembly and test will find new careers at the Bendix Systems Division, Ann Arbor, Michigan, Write or call our Personnel Director,--An equal opportunity employer.

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Mississippi Support

GE, selected as February, 1962, as the

Another critical bearing problem solved by Fabroid



Problem: Design a bearing for the entir landing year of the infrequent inspections. Solution: Pubelify special P/N 23233 self-lubrication beautier.

(right, above) with these features, self-balancation for the Els of the besting . . , high load expectly - attempts state lead of 100,000 from -- 220° F to -- 550° F without affection properties . . . concernation opinion . no seals required





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AVAILAND WITH & SPACE MICHIGINGS, September 22, 1742





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DOUGLAS DC-8F GIVES

A new performance record for the books has been credited to a new DC-8F jet freighter, recently delivered to Trans-International Airlines.

In its first eight days of contract operations by T.L.A. for the Milliary Air Transport Service, the big Douglas earge-jet delivered a steel of 234,657 pounds of fleight to Southeast Asia from California. Distance logged on the three count fries was more than 56,000 miles.

CARGO ITS BIGGEST

LIFTI

On one of these trips it airlifed the heavisst payload ever carried operationally by any transport—87,028 pounds—from Travix Air Force Base near San Francisco 8000 miles across the Pacific to Saigos, South Virtuam. Steps were mode as Henchbu and Giaro.

This record-breaking jet freighter has a ferry range of more than 7,000 miles and a cruising speed above 575 mph.

In addition to T.I.A, other airlines which have DC-8Fs in operation or on order include Capital Airways, KLM Royal Dutch Air Lines, Trans-Canada Air Lines, Trans Caribbean Airways, and United Air Lines.

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W. H. NICHOLS CO.



STATE-OF-THE-ART REPORT ON SOLID PROPELLANT ROCKET MOTOR DEVELOPMENT AT UTC

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UNITED TECHNOLOGY CENTER









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2 Early fauntality test fishing demonstrated the efficiency of UIC's unique clevis yout, key to the development at lestible sepmented sold propolities sectar. Subsequent tests sectoded the nation's livet product a sepmented film-risks caused motors.

3. Company Funded R & D overcome infilial problems of large segmented sailed gerpellant boosters core config., and emable, and threat vector central. East of USAF 35 ton motor veri-

4. Chartered Sallid Prepellant Blades fixed by UTC demonstrate and samplement of Igasem for exceeding manned hanch specifications. Cleaters of large solids and provide tree of millions of

one provide tree of millions of powers thrust.

5. First 129 look Mater Ered under USAF Program 604A gre-

direct peak thrust of 250,000 pounds during two-charte firing. Single-engineeted test is first stop in UTC's from III C development program.

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stage of the Standardord Space Leanth Website, employing of two Stv-segment sold propel land notiket motors, 120 mehrs in diameter, will give this ericcis more than 2 million pounds of throat at filtrell. In will cells!

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Manager, William Dayon #1 (215)

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AVAISON WEEK & SPACE SECRNOLOGY, September 25, 1765

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► STL Becomes TRW Division—Space Technology Laboratories will become a features of Thompson Maps Wood finding, effective Oct 1. Pour to the, curriculous the pound daining which the loboratories were providing reviews assurgment to the Ar Freier's billingue work programs. STL was a wholly

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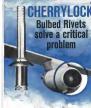
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First Photo Shows Itch N62-160 Utility Aircraft Configuration
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AVAIRON WERK & SPACE TECHNOLOGY, Suprestur 25, 1955 AVAIRON WERK & SPACE TECHNOLOGY, Sep



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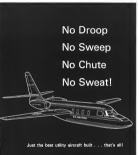
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